# Autonomous FinOps for Kubernetes

Kubernetes has become the standard for managing modern-day instances and services in the cloud. Pepperdata's 2021 Kubernetes and Big Data Report found that 77% of enterprises are adopting Kubernetes technology to improve their resource utilization and reduce cloud expenses. Kubernetes orchestrates computing, networking, and storage infrastructure and is often relied upon to streamline the migration of on-prem workloads to the cloud. However, despite its power and flexibility, running Kubernetes at scale can pose some challenges — most notably, controlling costs without constant manual tweaking.

## Driving Productivity and Business Growth for the World's Largest Brands

## Addressing The Challenges of Kubernetes Monitoring

Pepperdata provides an Autonomous FinOps Kubernetes platform that identifies opportunities for savings, recommends changes that can be made without impacting performance or reliability, and implement those changes autonomously across an organization's entire Kubernetes infrastructure. In addition, Pepperdata offers container-level visibility into apps and workloads, providing a complete picture of a Kubernetes environment. Autonomous optimization allows users to benefit from superior Kubernetes speed, scalability, and performance without the hassle of manual intervention or code changes.

### Autonomous Cost Optimization

Pepperdata's Autonomous FinOps solutions can deliver up to 60% savings off your cloud bill while reclaiming precious time otherwise wasted on manual tweaking and tuning. Pepperdata's AI engine takes care of all the hard work – identifying opportunities for savings, recommending changes that can be made without impacting performance or reliability, and implementing those changes autonomously across an organization's entire Kubernetes infrastructure.

### FinOps Cloud Control

Pepperdata allows you to set the guardrails on your budget so that you remain in complete control of the optimization process. Eliminate the tedium of poring over opaque cloud billing reports, wondering what each line item means. Pepperdata delivers a "set it and forget it" level of assurance that your budgets and other objectives will be met.

### Container-Level Cost Visibility

Pepperdata delivers granular visibility into your entire Kubernetes environment, including resources used for clusters and apps. It provides detailed insights derived from performance information and other sources to help you accelerate decision-making and quickly identify and resolve performance issues before they impact SLAs.

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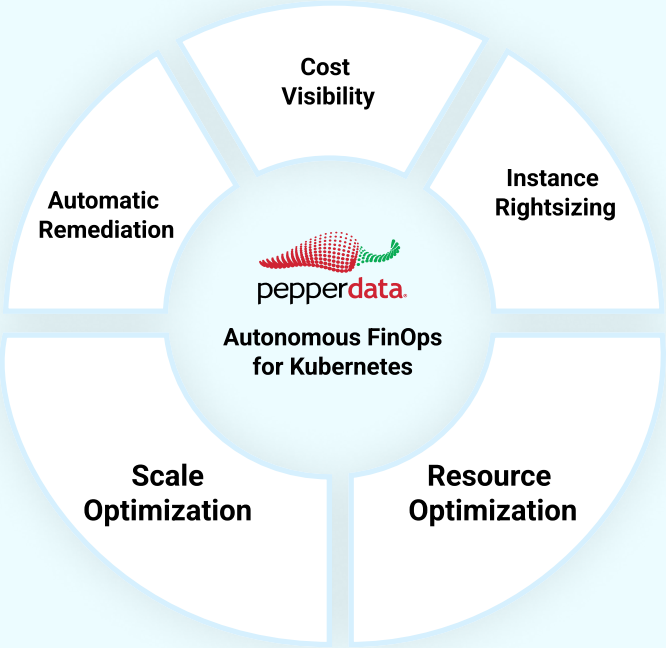
# Optimize and Operate Cloud Cost Autonomously

Kubernetes management doesn't need to be manual. Pepperdata's Capacity Optimizer autonomously optimizes your cluster resources, recapturing wasted capacity so you can run more applications and get the most out of your infrastructure investment.

From tracking the performance and health of all apps and workloads running on Kubernetes to automatically optimizing workload using the ideal configurations, Pepperdata helps you improve price/performance, increase throughput, meet SLAs, and more. Pepperdata does all this while significantly recovering resource waste and reducing overprovisioning.




## Providing:

- **Cloud cost allocation**
- **Savings management**
- **Spend variation alerts**
- **Cost accountability**
- **Budget planning**

## About Us

**Pepperdata** delivers automated remediation of cloud cost without manual tuning. We deliver continuous, autonomous optimization of infrastructure using rightsizing, resource optimization, and governed autoscaling — with no code changes. Our customers are transforming the performance of their big data cloud and Kubernetes workloads, with companies like Expedia and Royal Bank of Canada depending on Pepperdata to deliver big data success. For more information, visit pepperdata.com.

*Case Study*

## Why Pepperdata?

Kubernetes can help you with your digital transformation and next-generation workloads by orchestrating your containers. However, Kubernetes also brings its own complexity challenges. Picking the right tool to manage your implementation is more important than ever for your success.

Pepperdata works with some of the most highly-scaled Kubernetes clusters in the world to optimize resource utilization and recognize and address potential issues before they adversely affect performance. Autonomous Kubernetes optimization results in enhanced performance and minimizes wasted compute resources. All of this empowers enterprises to recover massive value and costs from their Kubernetes stack.

## Autonomous Kubernetes Optimization

### Cost allocation and visibility

Get container-level cost visibility by breaking down costs by Kubernetes object types to provide a holistic view of FinOps.

### Instance rightsizing

Recommend optimal instance types for workloads to reduce over-provisioning.

### Scale optimization

Utilize the full extent of your resources without sacrificing performance or increasing costs. Reclaim wasted memory and eliminate angst over traffic spikes or workload changes.

### Automatic remediation

Run optimizers continuously and autonomously by analyzing container cost data and runtime behavior.

Sign up for the free self interactive demo to see how automatic optimization and full-stack observability can improve big data application performance across your entire big data stack.

Request Free Demo

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